

WHAT IS CLAIMED IS:

1. A method is disclosed for separating a polypeptide monomer from a mixture comprising dimers or multimers or both, wherein the method comprises applying the mixture to a cation-exchange or anion-exchange chromatography resin in a buffer, wherein if the resin is cation-exchange, the pH of the buffer is about 4-7, and wherein if the resin is anion-exchange, the pH of the buffer is about 6-9, and eluting the mixture at a gradient of about 0-1 M of an elution salt, wherein the monomer is separated from the dimers or multimers or both present in the mixture.
2. The method of claim 1 wherein the polypeptide is an antibody or a serum albumin.
3. The method of claim 2 wherein the antibody is anti-IgE, anti-IgG, anti-Her-2, anti-CD11a, anti-CD18, anti-CD20, or anti-VEGF.
4. The method of claim 2 wherein the serum albumin is bovine serum albumin.
5. The method of claim 1 wherein the ion-exchange resin is a cation-exchange resin.
6. The method of claim 1 wherein the ion-exchange resin is an anion-exchange resin.
7. The method of claim 1 wherein the gradient is linear.
8. The method of claim 1 wherein the gradient is stepwise.
9. The method of claim 1 wherein the elution salt is a sodium salt.
10. The method of claim 9 wherein the elution salt is sodium chloride.
11. The method of claim 1 wherein the gradient is from 0 to 500 mM elution salt.

12. The method of claim 1 wherein the gradient is from 50 to 200 mM elution salt.
13. The method of claim 1 wherein the gradient is from 0 to 50 mM elution salt.

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